

Claims

1. A new and distinct genotype of *Artemisia annua* 'CIM-Arogya', developed through marker assisted breeding, possessing the following combination of characters:

5	- Genus	<i>Artemisia</i>
	- Species	<i>annua</i>
	- Family	Asteraeae
	- Common name	Qinghao
	- Plant height	280-305 cm
10	- Plant canopy	Oval
	- Growth habit	Erect
	-Branching	sympodial branching pattern
15	-Stem:	single, round hard woody green (137D) Stem width 5-12 cm (app)
	- Number of Branches:-	
20	-primary branches:	-55-65
	-Secondary branches per primary branch:	-50-60-
	-Tertiary branches per secondary branch:	-37-45
	-Range of length of Internodes	
25	-Main stem –	4-6cm at bottom, 10-12cm at middle, 2-5 cm at the top
	-Primary branch	2-5 cm at bottom, 8-11 cm at middle, 2-4 cm at the top
	-Secondary branch	8-11 cm at the bottom, 5-7 cm at the middle, 1-3 cm at the top
	-Tertiary branch	3-5 cm at the bottom, 1-3cm at the middle, 0.5-1.5 cm at the top
30	-Leaf-	Green (137 B)
	-Texture-	Thin and flexible
	-Surface –	Smooth non pubescent
35	-Shape-	Pinnately compound leaf
	-Margin-	Pinnetisected
	-Tip-	Acute
	-Petiol length-	2.5-3.50 cm
	-Lamina length-	5-7cm
40	-Lamina width-	4-5cm
	-Inflorescence-	Capitulum (head)
	-Flower-	Arranged in whorls. Colour yellow group (7A)
	-Two types of flowers	Disc florets and Ray florets.
45	-Disc florets are bisexual and ray florets are unisexual (female)	
	-Colour	Greenish yellow 2-3mm in diameter
	-Receptacles	Glabrous

-Calyx	Bracteates
-Corolla	Sympetalous, tubular top split in to 5 lobes in Disc florets and 2-3 lobes in Ray florets (legulate)
3	
5	
-Androecium	5 stamens, Anther lobes are fused and filaments are free
-Colour	Yellowish
-Gynoecium	Unilocular, inferior bifid stigma.
-Colour	yellowish
10	
-Time of flowering-	198 days.
-Seed setting	240 days (app)
-Artemisinin content	0.9 to 1.1%
-Artemesinic acid	0.002- 0.004%
-Oil content	0.35-0.45%
15	
-alternate deeply dissected aromatic leaves ranging between 2.5 to 5.0 cm in length.	
-tiny yellow nodding flowers (capitula)	
-capitula in loose panicle containing numerous central bisexual florets and marginal pistillate florets	
-receptacle is glabrous	
20	
-florets and receptacle bear abundant 10-celled biseriate trichomes	
-globular canopy	
-dry leaf yield of about 50 Q per hectare	
- flowers (7A) arranged in a head or Capitulum.	